PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference	FOR FURTHER ACTION		on of Transmittal of International	
010-0019		•	xamination Report (Form PCT/IPEA/416)	
International application No.	International filing date (day/mor	ith/year)	Priority date (day/month/year)	
PCT/US05/08282	11 March 2005 (11.03.2005)		13 March 2004 (13.03.2004)	
International Patent Classification (IPC)				
IPC: G06F 9/46 (2006.01); G06F 13/14 (2006.01) USPC: 718/100,102,104;709/226				
Applicant				
CLUSTER RESOURCES, INC.				
1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.				
2. This REPORT consists of a total of sheets, including this cover sheet.				
This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT). These annexes consist of a total of sheets.				
3. This report contains indications relating to the following items:				
I Basis of the report				
II Priority				
	ant of somest with second to sove	altri invantiva	aton and industrial applicability	
		enty, inventive	step and industrial applicability	
V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement				
VI Certain documents cited				
VII Certain defects in the international application				
VIII Certain observations on the international application				
Date of submission of the demand	Date	of completion	of this report	
		•	•	
11 October 2005 (11.10.2005)		nuary 2008 (16.0		
Name and mailing address of the IPEA/U Mail Stop PCT, Attn: IPEA/ US	S Autho	Authorized officer		
Commissioner for Patents P.O. Box 1450	Meng	g-Ai An	-	
Alexandria, Virginia 22313-1450 Facsimile No. (571) 273-3201	Telep	hone No. (571)	272-2100	
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Form PC1/IPEA/409 (cover sheet)(July 1998)

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US05/08282

I.	I. Basis of the report			
1.	1. With regard to the elements of the international application:*			
	the international application as originally filed.			
	the description:			
	pages 1-9 as originally filed			
	pages NONE, filed with the demand			
	pages NONE, filed with the letter of			
	the claims:			
	pages 10-13 , as originally filed			
	pages NONE, as amended (together with any statement) under Article 19 pages NONE, filed with the demand			
	pages NONE, filed with the letter of			
	the drawings:			
	pages 1-4 , as originally filed			
	pages NONE, filed with the demand			
	pages NONE, filed with the letter of			
	the sequence listing part of the description:			
	pages NONE as originally filed			
	pages NONE, filed with the demand pages NONE, filed with the letter of			
2	2. With regard to the language, all the elements marked above were available or furnished to this A	Authority in the		
	language in which the international application was filed, unless otherwise indicated under this is	-		
	These elements were available or furnished to this Authority in the following language wl	hich is:		
	the language of a translation furnished for the purposes of international search (under Rule)	23.1(b)).		
	the language of publication of the international application (under Rule 48.3(b)).			
	the language of the translation furnished for the purposes of international preliminary exam 55.2 and/or 55.3).	ination(under Rules		
3.	3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application international preliminary examination was carried out on the basis of the sequence listing:	eation, the		
	contained in the international application in printed form.			
	filed together with the international application in computer readable form.			
	furnished subsequently to this Authority in written form.			
	furnished subsequently to this Authority in computer readable form.			
	The statement that the subsequently furnished written sequence listing does not go beyond international application as filed has been furnished.	the disclosure in the		
	The statement that the information recorded in computer readable form is identical to the whas been furnished.	vritten sequence listing		
4.	4. The amendments have resulted in the cancellation of:			
	the description, pages <u>NONE</u>			
	the claims, Nos. NONE			
	the drawings, sheets/fig NONE			
ξ		haan considered to so		
٦.	5. This report has been established as if (some of) the amendments had not been made, since they have beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).**	ocen considered to go		
* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17). ** Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.				

Form PCT/IPEA/409 (Box I) (July 1998)

PCT/US2005/008282 01.02.2008

NO

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/US05/08282

Claims NONE

V.	Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability;
	citations and explanations supporting such statement

1. STATEMENT Novelty (N) Claims 1-18 YES Claims NONE NO YES Claims NONE NO Inventive Step (IS) Claims NONE YES Claims 1-18 NO YES NO Industrial Applicability (IA) Claims 1-18 YES

2. CITATIONS AND EXPLANATIONS

Claims 1-18 lack an inventive step under PCT Article 33(3) as being obvious over Biliris et al. (hereafter Biliris) (U.S. Patent No. 6041354) in view of Egawa et al (hereafter Egawa) (U.S Patent No. 5745694).

As per claim 1, Biliris teaches the invention as claim including a method of performing intelligent data pre-staging for a job submitted to a compute environment, the method comprising:

determining availability of compute resources including availability timeframes to process the submitted job (col. 5, lines 53-56); and determining data requirements for processing the job (col. 5, lines 56-57).

Biliris did not specifically teach determining a co-allocation in time reservation.

However, Egawa teaches determining a co-allocation in time reservation (abstract; col. 3, lines 33-38).

It would have been obvious to one of ordinary skill in the art at the time the invention was made to combine the teaching of Biliris and Egawa's system because both of the systems dealing with network resource managing and Egawa also teaching of determining a co-allocation in time reservation would improved the integrity of Biliris's system by providing a resource reservation system which is easily expandable to adapt user's demand (col. 1, lines 46-48).

As per claim 2, Biliris teaches that wherein the data requirements related to a quantity of data and a speed of migration of the data to the compute resources (col. 8, lines 28-62).

As per claim 3, Biliris teaches that wherein the data requirement for processing the job are at least one of: network information, network speed, faults, statistical fluctuation, delivered bandwidth by the network, size, and any issues, you basically have to ramp up the initialized step, a data transfer step, and a prologue step, termination step which completes the record and verifies the successful transfer of data (col. 8, lines 28-62).

As per claim 4, Biliris teaches that wherein the compute resources must be available prior to the completion of the data staging step (col. 6, lines 1-18).

As per claims 5-18, they are rejected for the same reasons as claims 1-4 above.

Claims 1-18 meet the criteria set out in PCT Article 33(4), and thus the application is industrial applicability because the subject matter claimed can be made or used in industry.

Form PCT/IPEA/409 (Box V) (July 1998)